

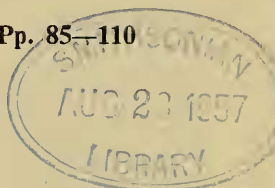
OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

Edited by

FRANCIS HEMMING, C.M.G., C.B.E.

Secretary to the Commission

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DIRECTION 66

Completion and in certain cases correction of entries relating to the names of genera belonging to the Phylum Arthropoda, the names of which were placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, other than entries relating to the names of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea

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INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

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DIRECTION 66

COMPLETION AND IN CERTAIN CASES CORRECTION OF ENTRIES RELATING TO THE NAMES OF GENERA BELONGING TO THE PHYLUM ARTHROPODA, THE NAMES OF WHICH WERE PLACED ON THE "OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY" IN THE PERIOD UP TO THE END OF 1936, OTHER THAN ENTRIES RELATING TO THE NAMES OF GENERA BELONGING TO THE CLASS INSECTA AND TO THE ORDER DECAPODA OF THE CLASS CRUSTACEA

RULING :—(1) In the case of each of the under-mentioned generic names the entry made on the *Official List of Generic Names in Zoology* by the Rulings given in the *Opinions* severally specified below is hereby completed by the insertion of a statement that the type species of the genus so named was determined by selection under Rule (g) in Article 30 by the author and on the date specified in each case below :—

(a) Names of genera belonging to the Class Crustacea :

- (i) *Lepas* Linnaeus, 1758 (Order Cirripedia) (*Opinion* 77) by selection by Pilsbry (1907) ;
- (ii) *Gammarus* Fabricius, 1775 (Order Amphipoda) (*Opinion* 104) : by selection by Latreille (1810) ;

(b) Names of genera belonging to the Class Arachnida :

- (iii) *Latrodectus* Walckenaer, 1805 (*Opinion* 104) : by selection by Latreille (1810) ;

- (iv) *Amblyomma* Koch, 1844 (*Opinion* 73) : by selection by Neumann (1901) ;
- (v) *Dermacentor* Koch, 1844 (*Opinion* 73) : by selection by Neumann (1901) ;
- (vi) *Haemaphysalis* Koch, 1844 (*Opinion* 73) : by selection by Neumann (1901) ;
- (vii) *Rhipicephalus* Koch, 1844 (*Opinion* 73) : by selection by Neumann (1901) ;
- (viii) *Trombidium* Fabricius, 1775 (*Opinion* 104) : by selection by Latreille (1810).

(2) The entry on the *Official List of Generic Names in Zoology* relating to the generic name *Diptomus* Westwood, 1836 (Class Crustacea, Order Copepoda) is hereby completed by the insertion of a statement that the type species of the genus so named was determined "by original designation".

(3) The incorrect reference for the selection of a type species for the genus *Dendryphantès* Koch, 1837 (Class Arachnida) made in the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104 is hereby deleted and the following amended reference is substituted therefor : Thorell, [1870], *Nova Acta K. Vet.-Soc.*, Upsala (3) 7 (Fasc. 1) (No. 1) : 214.

(4) The words "type species, by monotypy" are hereby substituted for the words "type species by original designation" in the entry relating to the determination of the type species of the genus *Rhizoglyphus* Claparède, [1869] (Class Arachnida) made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104.

(5) The date "[1803—1804]" is hereby substituted for the date "1804" as the date to be attributed to the generic name *Porcellio* Latreille (Class Crustacea, Order Isopoda) in the entry relating to that name made on the

Official List of Generic Names in Zoology by the Ruling given in *Opinion* 104.

(6) In the entry relating to the generic name *Dysdera* Latreille, [1804] (Class Arachnida) made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104 :—

(a) the words “*Aranea punctoria* Villers, 1789, *Linn. Ent.* 4 : 128 ” are hereby substituted for the words “*punctoria* Latr. 1804 ” in the portion of the entry relating to the name of the type species of the above genus ;

(b) all references to the name *Aranea erythrina* Walckenaer, 1802, as being a senior subjective synonym of *Aranea punctoria* (wrongly attributed in the above *Opinion* to Latreille) are hereby deleted.

(7) The date “ [1802—1803] ” is hereby substituted for the date “ 1802 ” as the date to be attributed to the generic name *Polydesmus* Latreille (Class Diplopoda) in the entry relating to that name made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104.

(8) In the entry relating to the generic name *Psoroptes* Gervais, 1841 (Class Arachnida), made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104 the words “*equi* Gerv.” are hereby deleted from the portion relating to the name of the type species of the above genus and the following amended entry is hereby inserted : “*Sarcoptes equi* Raspail, 1834, *Bull. gén. Thé. méd. chir.*, Paris 7 (Suppl.) : 182 ”.

(9) The under-mentioned generic names are hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name Numbers severally specified below :—

- (a) *Avicularia* Gray (J.E.), 1848 (a junior homonym of *Avicularia* Lamarck, 1818) (Name No. 950) ;
- (b) The under-mentioned names, each of which is an Erroneous Subsequent Spelling of *Cheyletus* Latreille, 1796 :—
- (i) *Cheylatus* Mégnin, 1878 (Name No. 951) ;
- (ii) *Cheyletes* Sundevall, 1833 (Name No. 952) ;
- (iii) *Cheylutus* Oudemans, 1906 (Name No. 953) ;
- (c) *Latrodectes* Canestrini & Pavesi, 1869 (an Invalid Emendation of *Latrodectus* Walckenaer, 1805) (Name No. 954) ;
- (d) *Lepas* da Costa, 1778 (a junior homonym of *Lepas* Linnaeus, 1758) (Name No. 955) ;
- (e) *Spinturnia* Van der Hoeven, 1849 (an Invalid Emendation of *Spinturnix* van Heyden, 1826) (Name No. 956) ;
- (f) *Trombidion* Agassiz (J.L.R.), 1845 (an Invalid Emendation of *Trombidium* Fabricius, 1775) (Name No. 957).

(10) The under-mentioned specific names, each of which was suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy by the Ruling given in *Opinion* 128, are hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *vespertilionis* Linnaeus, 1758, as published in the combination *Pediculus vespertilionis* (Name No. 399) ;

- (b) *vespertilionis* Dugès, 1834, as published in the combination *Dermanyssus vespertilionis* (Name No. 400) ;
- (c) *vespertilionis* Schrank, 1803, as published in the combination *Hippobosca vespertilionis* (Name No. 401) ;
- (d) *vespertilionis* Hermann, 1804, as published in the combination *Phthiridium vespertilionis* (Name No. 402) ;
- (e) *vespertilionis* Dufour, 1832, as published in the combination *Pteroptus vespertilionis* (Name No. 403).

(11) All usages of the under-mentioned specific name in combination with the generic names severally specified below, each of which usage was suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy by the Ruling given in *Opinion* 128, are hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with the Name Numbers specified against each of the usages in question :—

- (a) *vespertilionis*, all usages of, in combination with the generic name *Acarus* Linnaeus, 1758 (Name No. 404) ;
- (b) *vespertilionis*, all usages of, in combination with the generic name *Acrocholidia* Kolenati, 1857 (Name No. 405) ;
- (c) *vespertilionis*, all usages of, in combination with the generic name *Celeripes* Montagu, 1808 (Name No. 406) ;
- (d) *vespertilionis*, all usages of, in combination with the generic name *Diplostaspis* Kolenati, 1857 (Name No. 407) ;

- (e) *vespertilionis*, all usages of, in combination with the generic name *Gamasus* Latreille, [1802—1803] (Name No. 408) ;
- (f) *vespertilionis*, all usages of, in combination with the generic name *Ichoronyssus* Kolenati, 1858 (Name No. 409) ;
- (g) *vespertilionis*, all usages of, in combination with the generic name *Liponissus* [sic] Kolenati, 1858 (Name No. 410) ;
- (h) *vespertilionis*, all usages of, in combination with the generic name *Listropoda* Kolenati, 1857 (Name No. 411) ;
- (i) *vespertilionis*, all usages of, in combination with the generic name *Megistopoda* Macquart, 1852 (Name No. 412) ;
- (j) *vespertilionis*, all usages of, in combination with the generic name *Nycteribia* Latreille, 1796 (Name No. 413) ;
- (k) *vespertilionis*, all usages of, in combination with the generic name *Penicillidia* Kolenati, 1863 (Name No. 414) ;
- (l) *vespertilionis*, all usages of, in combination with the generic name *Periglischrus* Kolenati, 1857 (Name No. 415) ;
- (m) *vespertilionis*, all usages of, in combination with the generic name *Sarcoptes* Latreille, [1802—1803] (Name No. 416) ;
- (n) *vespertilionis*, all usages of, in combination with the generic name *Spinturnix* van Heyden, 1826 (Name No. 417) ;

- (o) *vespertilionis*, all usages of, in combination with the generic name *Strebla* Wiedemann, 1824 (Name No. 418).

I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The present *Direction* contains decisions taken by the International Commission on Zoological Nomenclature for the purpose of completing and, where necessary, correcting, the entries in regard to the names of genera belonging to the Phylum Arthropoda placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, other than entries relating to the names of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea which have already been subjected to a similar review in *Direction 37* and *Direction 63* respectively. The purpose of the review so undertaken was to bring the entries concerned up to the state required for inclusion in the first instalment of the *Official List*, the preparations for the publication of which in book-form are now well advanced. The proposals on which the decisions taken in the present case were based were submitted to the International Commission by the Secretary on 11th June 1956 in the following paper :—

Proposed completion and correction of certain entries relating to the names of genera belonging to the Phylum Arthropoda, exclusive of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea, the names of which were placed on the “ Official List of Generic Names in Zoology ” in the period up to the end of 1936

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

The present paper contains particulars of various minor errors and omissions in the entries relating to the names of genera belonging to the Phylum Arthropoda, exclusive of genera belonging to the Class

Insecta and to the Order Decapoda of the Class Crustacea; made in the *Official List of Generic Names in Zoology* in the period up to the end of 1936. In the case of the entries relating to nine generic names belonging to the foregoing group, no recommendations are submitted, either because serious defects have been found in the entries made on the *Official List* in regard to these names or because it has so far proved impossible to obtain all the information needed to complete the entries made on the *List*. The generic names, the entries relating to which have been postponed for one or other of the foregoing reasons are the following: (i) *Armadillidium* Brandt & Ratzeburg, [1831]; (ii) *Oniscus* Linnaeus, 1758; (iii) *Argas* Latreille, 1795; (iv) *Hyalomma* Koch, 1844; (v) *Ixodes* Latreille, 1795; (vi) *Chorioptes* Gervais & van Beneden, 1859; (vii) *Dermanyssus* Dugès, 1834; (viii) *Glycyphagus* Hering, 1838; (ix) *Sarcoptes* Latreille, [1801—1802]. Subject to the above exceptions proposals are now submitted for rectifying all the errors and omissions which have come to light. At the same time proposals are submitted for the addition to the *Official Indexes of Rejected and Invalid Names* of various objectively invalid names involved in connection with the entries on the *Official List* now under consideration.

2. The problems discussed in the present paper came to notice in the course of work in the Office of the Commission in connection with the forthcoming publication of the *Official List* in book-form. In the subsequent investigations most valuable assistance has been received from a number of specialists to whom the grateful thanks of the Commission are due. The names of the specialists who have assisted in this way are given in the following list, in which also have been incorporated (a) particulars of their present appointments or of the appointments which they held at the time when the consultations took place and (b) particulars of the Classes of the Animal Kingdom on the names of genera of which assistance has been afforded:—

Pierre Bonnet (*Université de Toulouse, Faculté des Sciences, Laboratoire de Zoologie, Toulouse*) (Class Arachnida)

H. Boschma (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) (Class Diplopoda)

Walter E. Collinge (*York, England*) (Class Arachnida)

G. O. Evans (*British Museum (Natural History), London*) (Class Arachnida)

J. P. Harding (*British Museum (Natural History), London*) (Class Crustacea)

Karl Jordan (*British Museum (Natural History), The Zoological Museum, Tring, Herts.*) (Class Trilobita; Class Crustacea)

Herbert W. Levi (*University of Wisconsin, Department of Zoology, Madison, Wisconsin, U.S.A.*) (Class Arachnida)

F. A. Turk (*Camborne, Cornwall, England*) (Class Arachnida)

R. J. Whittick (*British Museum (Natural History), London*) (Class Arachnida)

3. The questions dealt with in the present paper fall into three well-defined groups, namely (a) cases where no information or incorrect information as to how the type species of genera had been determined under Article 30 was given when the generic names in question were placed on the *Official List*; (b) cases where names were attributed to wrong authors or to wrong dates or for which wrong bibliographical references were cited when the generic names concerned were placed on the *Official List*; (c) the addition to the *Official Indexes of Rejected and Invalid Names* of objectively invalid names involved in connection with names falling in the group covered by the present paper.

(1) Proposed insertion in the " Official List of Generic Names in Zoology " of particulars as to the method by which the type species for eleven genera were determined under Article 30 of the " Règles "

4. In the case of nine genera no particulars as to how the type species of the genera concerned had been determined under Article 30 of the *Règles* were given when the generic names in question were placed on the *Official List*. In each case the requisite information has been obtained by the Office of the Commission. Full particulars are given in Annexe 1 to the present paper.

5. "*Dendryphantes*" Koch, 1837: The entry in *Opinion* 104 regarding the method by which the type species of this genus was determined reads as follows: "tsd (1869) *hastatus*". The reference clearly is to Thorell's work *On European Spiders*, where the type selection referred to above occurs on page 214. The title page of this work is dated "1869" (the year cited in *Opinion* 104), but only the first 208 pages were published in that year, the remainder being published in 1870. The title cited above is not the title of a separately published book, being no more than the title of a paper published in two instalments in a serial publication. The reference to be inserted in the *Official List* should be Thorell, [1870], *Nova Acta K. Vet.-Soc.*, Upsala (3) 7 (Fasc. 2) (No. 1) : 214.

6. "*Rhizoglyphus*" Claparède, [1869]: In this case incorrect particulars as to how the type species had been determined were given in *Opinion* 104 when the name was placed on the *Official List*. It was

there stated that the type species had been determined by original designation, this being indicated by the use of the formula "tod". Inspection of Claparède's paper shows that the type species was not designated by that author. The type species cited in the *Official List* is, however, correct, the species concerned having been determined as such by monotypy.

(2) **Proposed correction of erroneous entries on the "Official List of Generic Names in Zoology" regarding the authorship, date and place of publication of four generic names made by the Ruling given in "Opinion" 104**

7. In the case of four generic names placed on the *Official List* by the Ruling given in *Opinion* 104 the entries made contained incorrect particulars regarding either the authorship to be attributed to the name in question or the date or place of publication of the name of the genus concerned or of its type species. Particulars of these errors are given in the following paragraphs, so that the necessary corrections may be made in the *Official List*.

8. "*Porcellio*" Latreille: This name was published in Volume 7 of the *Hist. nat. gén. partic. Crust. Ins.* This volume bears the date "An XII" in the French Revolutionary Calendar, i.e. it was published in the period September 1803 to September 1804. The date "[1803—1804]" should therefore be substituted for the date "1804" cited in *Opinion* 104.

9. "*Dysdera*" Latreille, [1804]: The type species of this genus was given in *Opinion* 104 as "*punctoria* Latr. 1804". The nominal species here referred to was established in the combination *Aranea punctoria*, which was first published not by Latreille in 1804 but by Villers in 1789 (*Linn. Ent.* 4: 128). *Opinion* 104 contained the following additional entry: "syn. *erythrina*". The nominal species here referred to is *Aranea erythrina* Walckenaer, 1802 (*Faun. Paris* 2: 224). From the standpoint of the author of *Opinion* 104, who (as noted above) believed that the name *punctoria* dated from 1804 (Latreille) that name was a junior subjective synonym of *erythrina* Walckenaer, 1802, but (as also noted above) the name *punctoria* was first published in 1789 (by Villers) and in consequence the name *erythrina* Walckenaer is no more than a junior subjective synonym of *punctoria*. This synonymy, even if generally accepted by taxonomists (a matter which appears to be doubtful) has therefore no bearing on the question of the name to be used for the type species of this genus.

10. "*Polydesmus*" Latreille: This name was published in Volume 3 of the *Hist. nat. gén. partic. Crust. Ins.*, the title page of which bears the date "An X", i.e. the period September 1801 to September 1802.

Griffin has shown (1938, *J. Soc. Bibl. nat. Hist.* 1 : 157), however, that this volume was not published until "An XI", i.e. not until the period September 1802 to September 1803. The name *Polydesmus* Latreille should therefore be dated "[1802—1803]". (By some inadvertence the name *Polydesmus* Latreille was placed in *Opinion* 104 in a list of genera of the Class Arachnida. I am indebted to Professor H. Boschma for drawing my attention to the fact that the taxon so named is really a myriapod (Class Diplopoda)).

11. "*Psoroptes*" Gervais, 1841 : The type species of this genus was given in *Opinion* 104 as "*equi* Gerv.". As used by Gervais, the specific name *equi* was not a new name. It was first published (in the combination *Sarcoptes equi*) by Raspail in 1834 (*Bull. gén. Thér. méd. chir.*, Paris 7 (Suppl.) : 182)

(3) Proposed addition of certain objectively invalid generic names to the "Official Index of Rejected and Invalid Generic Names in Zoology"

12. As in the case of the reviews previously undertaken in regard to other groups of generic names placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, the review of the present group of generic names has brought to light a number of objectively invalid generic names which should now be placed on the *Official Index* established for recording the names of taxa of this category. The names concerned are set out in Annexe 2 to the present paper.

(4) Proposed addition to the "Official Index of Rejected and Invalid Specific Names in Zoology" of certain specific names and usages of such names suppressed under the Plenary Powers by the Ruling given in "Opinion" 128

13. By the Ruling given in *Opinion* 128 the International Commission, acting under its Plenary Powers, suppressed "the specific name *vespertilionis* of all authors for the following generic names". Here followed a list of twenty generic names, of which ten were the names of genera belonging to the Class Arachnida and ten were the names of genera belonging to the Class Insecta (Order Diptera (nine names) ; Order Anoplura (one name)). The generic names concerned were the following :—

(i) *Class Arachnida* :

(a) *Acarus* Linnaeus, 1758 ;

- (b) *Dermanyssus* Dugès, 1834 ;
- (c) *Diplostaspis* Kolenati, 1857 ;
- (d) *Gamasus* Latreille, [1802—1803] ;
- (e) *Ichoronyssus* Kolenati, 1858 ;
- (f) *Liponissus* [*sic*] Kolenati, 1858 ;
- (g) *Periglischrus* Kolenati, 1857 ;
- (h) *Pteroptus* Dufour, 1832 ;
- (i) *Sarcoptes* Latreille, [1802—1803] ;
- (j) *Spinturnix* van Heyden, 1826 ;

(ii) *Class Insecta, Order Diptera* :

- (a) *Acrocholidia* Kolenati, 1857 ;
- (b) *Celeripes* Montagu, 1808 ;
- (c) *Hippobosca* Schrank, 1803 ;
- (d) *Listropoda* Kolenati, 1857 ;
- (e) *Megistopoda* Macquart, 1852 ;
- (f) *Nycteribia* Latreille, 1796 ;
- (g) *Penicillidia* Kolenati, 1863 ;
- (h) *Phthiridium* Hermann, 1804 ;
- (i) *Strebla* Wiedemann, 1824 ;

(iii) *Class Insecta, Order Anoplura* :

Pediculus Linnaeus, 1758.

14. The object of the Commission when taking the sweeping decisions described above was to put an end to the hopeless state of confusion which had arisen through the insuperable difficulties encountered by specialists in interpreting the nominal species *Pediculus vespertilionis* Linnaeus, 1758. This species had been regarded by some workers as belonging to one or other of a number of different genera of Arachnida, while by others it had been placed in a variety of genera of insects. In addition various later authors had added to the general state of confusion by giving the name *vespertilionis* to new nominal species erected by themselves. The result was that the name *vespertilionis* Linnaeus, 1758, had become so hopelessly compromised by the diverse interpretations which had been given to it that it had lost all practical utility. While the object of the Commission in taking the action set out in *Opinion* 128 was highly commendable, it must be admitted that the drafting of that *Opinion* was very unsatisfactory, when judged even by the standards of that day, for no bibliographical references were given for the names cited in it. These questions have

been investigated in the Office of the Commission for the purpose of preparing the ground for the recording of the Commission's decision on the *Official Index of Rejected and Invalid Specific Names in Zoology*. These investigations have established the fact that the name *vespertilionis* was published as the name for a new nominal species in four of the genera cited in *Opinion 128*, in addition to the genus *Pediculus* Linnaeus, 1758. The generic names concerned are : (1) *Dermanyssus* Dugès, 1834 ; (2) *Hippobosca* Schrank, 1803 ; (3) *Phthiridium* Hermann, 1804 ; (4) *Pteroptus* Dufour, 1832. Second, it has been found that the specific name *vespertilionis*, as published in combination with one or other of the foregoing genera, was referred to by the following five authors when establishing new nominal genera of their own. The genera concerned were : (a) *Celeripes* Montagu, 1808 ; (b) *Nycteribia* Latreille, 1796 ; (c) *Penicillidia* Kolenati, 1863 ; (d) *Spinturnix* van Heyden, 1826 ; (e) *Strebla* Wiedemann, 1824. Third, the investigations undertaken have established the place where the name *vespertilionis* as employed by one or other of the authors enumerated above in connection with the first group of names, (i.e. as employed by Dugès, Schrank, Hermann or Dufour) was later employed—either as a specific name or as a junior synonym of some other name—in combination with four more of the generic names specified in *Opinion 128*. The generic names so concerned are : (i) *Acarus* Linnaeus, 1758 (as used by Scopoli, 1763) ; (ii) *Acrocholidia* Kolenati, 1857 (as used by the same author in 1863) ; (iii) *Gamasus* Latreille, [1802—1803] (as used by the same author in 1817) ; (iv) *Listropoda* Kolenati, 1857 (as used by the same author in 1863). In the six remaining cases it has not been possible to trace where the name *vespertilionis* (as of some earlier author) was first cited as the name (or as a junior synonym of the name) of a species belonging to the genus concerned. The genera concerned are : *Diplostaspis* Kolenati, 1857 ; *Ichoronyssus* Kolenati, 1858 ; *Liponissus* Kolenati, 1858 ; *Megistopoda* Macquart, 1852 ; *Periglischrus* Kolenati, 1857 ; *Sarcoptes* Latreille, [1802—1803]. While it is unfortunate that it has not been found possible to ascertain in every case where the specific name *vespertilionis* was used either as a new name or as a later usage of a previously published name in each of the twenty nominal genera cited in *Opinion 128*, it may certainly be concluded that all uses of *vespertilionis* as a new name have been traced and that the references which are still missing are all to later usages of one or other of the names which have been traced.

15. It is necessary now to consider the procedure to be adopted for codifying the decision in relation to the specific name *vespertilionis* given in *Opinion 128*. In this connection two points must be noted, first, that the object of the above decision was to eliminate all uses of the compromised name *vespertilionis* in each of the twenty genera cited in the above *Opinion*, second, that, to secure this end, the Commission used its Plenary Powers. What is necessary now, in

order to give effect to the decision so taken is to place on record that the names concerned are to be regarded as having been suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy. This qualification, which, in accordance with the Directive given to the Commission by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* 4 : 338—339), would automatically have been inserted in the Ruling given in *Opinion* 128 if that *Opinion* had been adopted subsequently to the Paris Congress, is essential, since it is only by this means that it is possible to ensure that the specific name *vespertilionis* can never be a valid name for a species in any of the genera cited in the above *Opinion*. As regards procedure it is proposed to follow the course set in previous somewhat similar cases namely that of placing on the *Official Index of Rejected and Invalid Specific Names in Zoology* (a) the five names, each consisting of the word *vespertilionis*, which were suppressed by the Commission under its Plenary Powers by the Ruling given in *Opinion* 128 and (b) all usages of the specific name *vespertilionis* in each of the remaining fifteen genera cited in the above *Opinion*. The formal recommendations required to give effect to the foregoing proposal are set out in Annexe 3 to the present paper. For the sake of completeness particulars are given in Annexe 4 of the earliest usages of the specific name *vespertilionis*, other than usages as a new name, which have so far been traced in the literature.

(5) Family-group-name problems

16. For a number of the genera, the names of which are dealt with in the present instalment of the review of entries on the *Official List of Generic Names in Zoology* made in the period up to the end of 1936, nominal family-group taxa have been established. As in previous instalments of the present review no proposals on this subject are submitted in the present paper, it having been decided that it would be better to conclude the survey of the problems directly associated with the generic names themselves and with the names of the type species of those genera before formulating proposals for the consideration of the Commission in regard to the family-group-name problems involved. It is considered that this procedure offers a twofold advantage, namely (1) that it ensures the completion at the earliest possible moment of the survey of the entries made on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 which the Commission was charged to undertake by the Thirteenth International Congress of Zoology, Paris, 1948, (2) that it provides a little more time for the search of the literature for the publication of the family-group names involved, the collection of information regarding which is inevitably more laborious than the collection of information regarding the names of genera and species, there being no comprehensive works of reference dealing with family-group names.

(6) Recommendations

17. In the light of the particulars relating to the names of genera belonging to the Phylum Arthropoda, exclusive of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea, the names of which were placed on the *Official List* in the period up to the end of 1936 set out in the present survey, I recommend that, in discharge of the duties imposed by the General Directives regarding the completion of Rulings given in *Opinions* rendered in the foregoing period, issued by the Thirteenth International Congress of Zoology, Paris, 1948, and of the Directives supplementary thereto issued by the Fourteenth International Congress of Zoology, Copenhagen, 1953, the International Commission on Zoological Nomenclature should :—

- (1) enter on the *Official List of Generic Names in Zoology* in respect of each of the generic names specified in Annexe 1 to the present paper the particulars there specified as to the manner in which the type species of the genus concerned was determined under Article 30 of the *Règles* (paragraph 4) ;
- (2) delete the incorrect reference for the selection of a type species for the genus *Dendryphantes* Koch, 1837, made on the *Official List* by the Ruling given in *Opinion* 104 and substitute therefor the following amended entry : Thorell, [1870], *Nova Acta K. Vet.-Soc.*, Upsala (3) 7 (Fasc. 1) (No. 1) : 214 (paragraph 5) ;
- (3) substitute the words “type species, by monotypy” for the words “type species, by original designation” in the entry on the *Official List* relating to the determination of the type species of the genus *Rhizoglyphus* Claparède, [1869] (paragraph 6) ;
- (4) substitute the date “[1803—1804]” for the date “1804” as the date of publication of the generic name *Porcellio* Latreille in the entry on the *Official List* relating to that name (paragraph 8) ;
- (5) substitute in the entry on the *Official List* relating to the generic name *Dysdera* Latreille, [1804] the words “*Aranea punctoria* Villers, 1789, *Linn. Ent.* 4 : 128” for the words “*punctoria* Latr. 1804” in the portion relating to the name of the type species of this genus, and at the same time delete from the foregoing entry all reference to the name *Aranea erythrina*

Walckenaer, 1802 cited in *Opinion* 104 as a senior subjective synonym of the name *punctoria* there (as noted above) incorrectly attributed to Latreille instead of to Villers (paragraph 9) ;

- (6) substitute the date "[1802—1803]" for the date "1802" as the date of publication of the name *Polydesmus* Latreille in the entry on the *Official List* relating to that name (paragraph 10) ;
- (7) delete from the *Official List* the words "equi Gerv." in the portion of the entry relating to the generic name *Psoroptes* Gervais, 1841, concerned with the type species of the genus so named and substitute therefor the entry "*Sarcoptes equi* Raspail, 1834, *Bull. gén. Thér. méd. chir.*, Paris 7 (Suppl.) : 182" (paragraph 11);
- (8) place on the *Official Index of Rejected and Invalid Generic Names in Zoology* the objectively invalid generic names enumerated in Annexe 2 to the present paper (paragraph 12) ;
- (9) place on the *Official Index of Rejected and Invalid Specific Names in Zoology* the specified names and the usages of such names enumerated in Annexe 3 to the present paper (paragraph 15).

ANNEXE 1

Proposals for the amplification and correction of entries made in the "Official List of Generic Names in Zoology" with regard to the method by which the type species of nine genera of the Phylum Arthropoda were determined under Article 30 of the "Règles"

<i>Name of Genus</i>	<i>Entry relating to the determination of the type species now proposed to be inserted in the "Official List of Generic Names in Zoology"</i>
<i>Lepas</i> Linnaeus, 1758	by subsequent selection by Pilsbry, 1907, <i>Bull. U.S. nat. Mus.</i> 60 : 79
<i>Diaptomus</i> Westwood, 1836	by original designation
<i>Gammarus</i> Fabricius, 1775	by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 423, 103.

<i>Latrodectus</i> Walckenaer, 1805	by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 424, 125
<i>Amblyomma</i> Koch, 1844	by subsequent selection by Neumann, 1901, <i>Mém. Soc. zool. France</i> 14 : 340
<i>Dermacentor</i> Koch, 1844	by subsequent selection by Neumann, 1901, <i>Mém. Soc. zool. France</i> 14 : 340
<i>Haemaphysalis</i> Koch, 1844	by subsequent selection by Neumann, 1901, <i>Mém. Soc. zool. France</i> 14 : 340
<i>Rhipicephalus</i> Koch, 1844	by subsequent selection by Neumann, 1901, <i>Mém. Soc. zool. France</i> 14 : 340
<i>Trombidium</i> Fabricius, 1775	by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 425, 131.

ANNEXE 2

**Proposed addition of eight objectively invalid generic names to the
“ Official Index of Rejected and Invalid Generic Names in Zoology ”**

1. *Avicularia* Gray (J.E.), 1848, *List Brit. Anim. Brit. Mus. (Centr.)* : 105, 146 (a junior homonym of *Avicularia* Lamarck, 1818, placed on the *Official List* in *Opinion* 104) ;
2. The under-mentioned Erroneous Subsequent Spellings for *Cheyletus* Latreille, 1796, placed on the *Official List* in *Opinion* 104 :—
 - (a) *Cheylatus* Mégnin, 1878, *J. Anat. Physiol. Paris* **14** : 421 ;
 - (b) *Cheyletes* Sundevall, 1833, *Consp. Arach. (2)* : 37 ;
 - (c) *Cheylutus* Oudemans, 1906, *Mém. Soc. zool. France* **19** : 212 ;
3. *Latrodectes* Canestrini & Pavesi, 1869, *Atti Soc. Ital.* **11** (No. 3) : 45 (an Invalid Emendation of *Latrodectus* Walckenaer, 1805, placed on the *Official List* in *Opinion* 104) ;
4. *Lepas* da Costa, 1778, *Brit. Conch.* : 1 (a junior homonym of *Lepas* Linnaeus, 1758, placed on the *Official List* in *Opinion* 77) ;
5. *Spinturnia* Van der Hoeven, 1849, *Handb. Dierk.* (ed. 2) **1** : 670 (an Invalid Emendation of *Spinturnix* van Heyden, 1826, placed on the *Official List* in *Opinion* 128) ;

6. *Trombidion* Agassiz, 1845, *Nomencl. zool.* (Arach.) : 13 (an Invalid Emendation of *Trombidium* Fabricius, 1775, placed on the *Official List* in *Opinion* 104).

ANNEXE 3

Proposed addition to the " Official Index of Rejected and Invalid Specific Names in Zoology " of certain objectively invalid specific names and usages of such names

1. The under-mentioned specific names suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy by the Ruling given in *Opinion* 128 :—
 - (a) *vespertilionis* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1 : 611, as published in the combination *Pediculus vespertilionis* ;
 - (b) *vespertilionis* Dugès, 1834, *Ann. Sci. nat.*, Paris (2) (Zool.) 1 : 18, as published in the combination *Dermanyssus vespertilionis* ;
 - (c) *vespertilionis* Schrank, 1803, *Fauna boica* 3(1) : 175, as published in the combination *Hippobosca vespertilionis* ;
 - (d) *vespertilionis* Hermann, 1804, *Mém. Apt.* : 120, as published in the combination *Phthiridium vespertilionis* ;
 - (e) *vespertilionis* Dufour, 1832, in Audouin, *Ann. Sci. nat.* Paris [1] 25 : 409, as published in the combination *Pteroptus vespertilionis* ;
2. *vespertilionis*, all uses of, in the genus *Acarus* Linnaeus, 1758 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
3. *vespertilionis*, all uses of, in the genus *Acrocholidia* Kolenati, 1857 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;

4. *vespertilionis*, all uses of, in the genus *Celeripes* Montagu, 1808 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
5. *vespertilionis*, all uses of, on the genus *Diplostaspis* Kolenati, 1857 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
6. *vespertilionis*, all uses of, in the genus *Gamasus* Latreille, [1802—1803] (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
7. *vespertilionis*, all uses of, in the genus *Ichoronyssus* Kolenati, 1858 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
8. *vespertilionis*, all uses of, in the genus *Liponissus* [sic] Kolenati, 1858 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
9. *vespertilionis*, all uses of, in the genus *Listropoda* Kolenati, 1857 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
10. *vespertilionis*, all uses of, in the genus *Megistopoda* Macquart, 1852 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
11. *vespertilionis*, all uses of, in the genus *Nycteribia* Latreille, 1796 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
12. *vespertilionis*, all uses of, in the genus *Penicillidia* Kolenati, 1863 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;

13. *vespertilionis*, all uses of, in the genus *Periglischrus* Kolenati, 1857 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
14. *vespertilionis*, all uses of, in the genus *Sarcoptes* Latreille, [1802—1803] (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
15. *vespertilionis*, all uses of, in the genus *Spinturnix* van Heyden, 1826 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
16. *vespertilionis*, all uses of, in the genus *Strebla* Wiedemann, 1824 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)).

ANNEXE 4

References to the places where the specific name “*vespertilionis*” of various authors was later cited in new combinations(A) Five cases where an author when establishing a new nominal genus cited the name “*vespertilionis*” of an earlier author as the name of an included species or as a junior synonym of such a name

- (1) *vespertilionis*, *Nycteribia* (Scopoli, 1763), Latreille, 1796, *Précis Caract. Ins.* : 176 (attributed by Latreille to Scopoli, whose usage was in turn only a later usage of *vespertilionis*, *Pediculus*, Linnaeus, 1758) ;
- (2) *vespertilionis*, *Celeripes* (Latreille, 1796) Montagu, 1808, *Trans. linn. Soc. Lond.* 9 : 166 (attributed to Latreille (*Nycteribia*) which, as shown in (1) above, was no more than a later usage of *vespertilionis*, *Pediculus*, Linnaeus, 1758) ;
- (3) *vespertilionis*, *Strebla* (Schrank, 1803), Wiedemann, 1824, *Anal. Ent.* : 19 (identified by Wiedemann with *vespertilionis*, *Hippobosca*, Schrank, 1803) ;

(4) *vespertilionis*, *Spinturnix* (Scopoli, 1763) (van Heyden, 1826, Oken's *Isis* 1826 : 612 (attributed by van Heyden to Scopoli, 1763, which, as shown in (1) above, was no more than a later usage of *vespertilionis*, *Pediculus*, Linnaeus, 1758) ;

(5) *vespertilionis*, *Penicillidia* (Dufour, 1832) Kolenati, 1863, *Hor. Soc. ent. ross.* 2 : 72 (treated by Kolenati as a later usage of *vespertilionis*, *Nycteribia*, Dufour, 1831 (*Ann. Sci. nat.*, Paris [1] 22 : 381) [nec *vespertilionis*, *Pteroptus*, Dufour, 1832, in Audouin, *Ann. Sci. nat.*, Paris [1] 25 : 409) ; Dufour's usage here was taken from Latreille, 1796, which, as shown in (1) above, is no more than a later usage of *vespertilionis*, *Pediculus*, Linnaeus, 1758 ; the taxon cited by Dufour as *Nycteribia vespertilionis* "Latreille" re-named *Penicillidia dufouri* by Kolenati).

(B) Three cases where the specific name "vespertilionis" Linnaeus, 1758, as published in the combination "Pediculus vespertilionis" was cited by later authors in a different combination

(6) *vespertilionis*, *Acarus*, Scopoli, 1763, *Ent. carniol.* : 387 (as noted in (A) (1) above, a later usage of *vespertilionis*, *Pediculus*, Linnaeus, 1758) ;

(7) *vespertilionis*, *Gamasus*, Latreille, 1817, in Cuvier, *Règne Anim.* 3 : 118 (identified by Latreille, with Scopoli's usage of 1763, which, as noted in (6) above, was a later usage of *vespertilionis*, *Pediculus*, Linnaeus, 1758) ;

(8) *vespertilionis*, *Listropoda*, Kolenati, 1863, *Hor. Soc. ent. ross.* 2 : 55 (attributed by Kolenati to Latreille, whose usage, as noted in (7) above, is a later usage of *vespertilionis*, *Pediculus*, Linnaeus, 1758 ; the taxon concerned re-named *Listropoda latreillei* by Kolenati).

(C) One case where the specific name "vespertilionis" Hermann, 1804, as published in the combination "Phthiridium vespertilionis" was cited by a later author in a different combination

(9) *vespertilionis*, *Acrocholidia*, Kolenati, 1863, *Hor. Soc. ent. ross.* 2 : 60—61 (the taxon named *Phthiridium vespertilionis* by Hermann in 1804; re-named *Acrocholidia montagui* by Kolenati).

2. Registration of the present application : Upon the receipt of Mr. Hemming's paper the question of completing and, in certain cases, correcting in the manner proposed the entries relating to the names of genera belonging to the Phylum Arthropoda other than entries relating to the names of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea made of the *Official List of Generic Names in Zoology* in the period up to the end of 1936 was allotted the Registered Number 1019.

II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

3. Issue of Voting Paper V.P.(O.M.)(56)13 : On 11th June 1956 a Voting Paper (V.P.(O.M.)56)13 was issued in which each Member of the Commission was asked (1) to state whether he agreed that "in accordance with the General Directives issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, regarding the placing on the appropriate *Official Lists* and *Official Indexes* of names dealt with in, or otherwise involved in, *Opinions* rendered prior to 1936, and other matters on which action is required in order to complete, to clarify, or to correct Rulings given in *Opinions* rendered in the foregoing period, the action recommended in paragraph 17 of the paper numbered Z.N.(S.) 1019, regarding the names of genera belonging to the Phylum Arthropoda, exclusive of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea submitted by the Secretary simultaneously with the present Voting Paper [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] be now taken as there recommended" and (2), if he did not so agree as regards any given item, to indicate that item.

4. The Prescribed Voting Period : As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 11th July 1956.

5. Particulars of the Voting on Voting Paper V.P.(O.M.)(56)13 :
 At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)(45)13 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-four (24) Commissioners (arranged in the order in which Votes were received) :*

Bodenheimer ; Vokes ; Lemche ; Hering ; Dymond ;
 Prantl ; Mayr ; Stoll ; Holthuis ; Bradley (J.C.) ;
 Riley ; Jaczewski ; Hankó ; Key ; Esaki ; do Amaral ;
 Bonnet ; Mertens ; Kühnelt ; Hemming ; Tortonese ;
 Sylvester-Bradley ; Cabrera ; Boschma ;

(b) *Negative Votes :*

None ;

(c) *Voting Papers not returned, one (1) :*

Miller.

6. Declaration of Result of Vote : On 12th July 1956 Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P. (O.M.)(56)13, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

7. Preparation of the Ruling given in the present “ Direction ” :
 On 21st March 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(56)13.

8. **Original References :** The original references for the generic and specific names placed on the *Official Indexes* for the names of taxa belonging to those categories by the Ruling given in the present *Direction* are as set out in Annexe 2 and Annexe 3 respectively of the paper reproduced in the first paragraph of the present *Direction*. The references for the selection of type species for the genera specified in Section (1) of the Ruling given in the present *Direction* are as set out in Annexe 1 of the paper referred to above.

9. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

10. The present *Direction* shall be known as *Direction Sixty-Six (66)* of the International Commission on Zoological Nomenclature.

DONE in London, this Twenty-First day of March, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission
on Zoological Nomenclature*

FRANCIS HEMMING